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## LISTING OF CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application.

## We Claim:

- 1. 11. (Canceled)
- 12. (Withdrawn) A method of inducing an immune response against Bovine Herpes Virus Type 1 in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.
- 13. (Withdrawn) A method of inducing an immune response against Bovine Viral Diarrhea Virus Type-1 in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.
- 14. (Withdrawn) A method of inducing an immune response against Bovine Viral Diarrhea Virus Type-2 in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.
- 15. (Withdrawn) A method of inducing an immune response against parainfluenza virus Type 3 (Pl3) in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.
- 16. (Withdrawn) A method of inducing an immune response against Bovine Respiratory Syncytial Virus (BRSV) in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinaryacceptable carrier.
- 17. (Withdrawn) A method of inducing an immune response against *Campylobacter fetus* in an animal subject, comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.
- 18. (Withdrawn) A method of inducing an immune response against an antigen selected from the group consisting of Leptospira canicola, Leptospira grippotyphosa, Leptospira borgpetersenii hardjo-prajitno, Leptospira icterohaemmorrhagia, Leptospira interrogans pomona, Leptospira borgpetersenii hardjo-bovis, Leptospira bratislava, Neospora caninum, Trichomonus fetus, Mycoplasma bovis, Haemophilis somnus, Mannheimia haemolytica and Pasturella multocida in an animal subject,

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comprising administering an immunologically effective amount of the composition of Claim 1 and a veterinary-acceptable carrier.

- 19. (Withdrawn) The method of any one of claims 12-18, wherein said immune response is a cellular or humoral immune response.
- 20. (Previously presented) A microfluidized vaccine composition comprising:

a modified live Bovine Herpes Virus (BHV-1);

a modified live parainfluenza virus Type 3 (PI3);

a modified live Bovine Respiratory Syncytial Virus (BRSV);

a Bovine Viral Diarrhea Virus Type-1 (BVDV-1);

a Bovine Viral Diarrhea Virus Type-2 (BVDV-2);

at least one antigen selected from the group consisting of Leptospira canicola,

Leptospira grippotyphosa, Leptospira borgpetersenii hardjo-prajitno, Leptospira icterohaemmorrhagia, Leptospira interrogans pomona, Leptospira borgpetersenii hardjo-bovis and Campylobacter fetus;

an adjuvant; and

a veterinary-acceptable carrier.

- 21. (Previously presented) The vaccine composition of Claim 20, wherein said BVDV-1 and BVDV-2 are inactivated.
- 22. (Original) The vaccine composition of Claim 20, wherein said adjuvant comprises a saponin.
- 23. (Previously presented) The vaccine composition of Claim 20, wherein said adjuvant comprises a saponin-containing oil-in-water emulsion.
- 24. (Canceled)
- 25. (Previously presented) The vaccine composition of Claim 20, wherein said adjuvant comprises Quil A, lecithin and oil blend, and cholesterol.
- 26. (Canceled)
- 27. (Canceled)
- 28. (Previously presented) The vaccine composition of Claim 20, wherein said Bovine Viral Diarrhea Virus Type-1 (BVDV-1) is cytopathic.

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29. (Previously presented) The vaccine composition of Claim 20, wherein said Bovine Viral Diarrhea Virus Type-1 (BVDV-1) is noncytopathic.

- 30. (Previously presented) The vaccine composition of Claim 20, wherein said Bovine Viral Diarrhea Virus Type-2 (BVDV-2) is cytopathic.
- 31. (Previously presented) The vaccine composition of Claim 20, wherein said Bovine Viral Diarrhea Virus Type-2 (BVDV-2) is noncytopathic.
- 32. (Withdrawn) A method of preventing abortion caused by a virus selected from the group consisting of BHV-1 in an animal comprising administering to said animal a therapeutically effective amount of the vaccine composition of Claim 20.
- 33. (Withdrawn) The method of Claim 32, wherein said animal is a cow, a calf, a heifer, a steer or a bull.
- 34. (Withdrawn) The method of Claim 33, wherein said animal is a lactating cow.
- 35. (Withdrawn) The method of Claim 33, wherein said animal is a pregnant cow.
- 36. (Withdrawn) The method of Claim 33, wherein said animal is a prebreeding cow or heifer.
- 37. (Withdrawn) The method of Claim 32, wherein said vaccine is administered intramuscularly.
- 38. (Withdrawn) The method of Claim 32, wherein said vaccine is administered subcutaneously.
- 39. (Withdrawn) The method of Claim 32, wherein said vaccine contains from about 10<sup>3</sup> to about 10<sup>10</sup> colony forming units per dose of each virus.
- 40. (Withdrawn) The method of Claim 32, wherein the amount of said vaccine administered is from about 0.5 to about 5.0ml per dose.
- 41. (Withdrawn) The method of Claim 32, wherein the amount of said vaccine administered is about 5ml per dose.
- 42. (Withdrawn) The method of Claim 32, wherein the amount of said vaccine administered is about 2ml per dose.
- 43. (Withdrawn) A method of treating or preventing a disease or disorder in an animal caused by infection with a virus selected from the group consisting of BVDV Type 1 or

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Type 2, BHV-1, PI3 or BRSV comprising administering to said animal a therapeutically effective amount of the vaccine composition of Claim 20.

- 44. (Withdrawn) The method of Claim 43, wherein said animal is a cow, a calf, a heifer, a steer or a bull.
- 45. (Withdrawn) The method of Claim 44, wherein said animal is a lactating cow.
- 46. (Withdrawn) The method of Claim 44, wherein said animal is a prebreeding cow or heifer.
- 47. (Withdrawn) The method of Claim 44, wherein said animal is a pregnant cow.
- 48. (Withdrawn) The method of Claim 43, wherein said vaccine is administered intramuscularly.
- 49. (Withdrawn) The method of Claim 43, wherein said vaccine is administered subcutaneously.
- 50. (Withdrawn) The method of Claim 43, wherein said vaccine contains from about 10<sup>3</sup> to about 10<sup>10</sup> colony forming units per dose.
- 51. (Withdrawn) The method of Claim 43, wherein the amount of said vaccine administered is from about 0.5 to about 5.0ml per dose.
- 52. (Withdrawn) The method of Claim 51, wherein the amount of said vaccine administered is about 5ml per dose.
- 53. (Withdrawn) The method of Claim 51, wherein the amount of said vaccine administered is about 2ml per dose.
- 54. (Withdrawn) A method of treating or preventing a disease or disorder in an animal caused by infection with an antigen selected from the group consisting of Leptospira canicola, Leptospira grippotyphosa, Leptospira borgpetersenii hardjo-prajitno, Leptospira icterohaemmorrhagia, Leptospira interrogans pomona, Leptospira borgpetersenii hardjo-bovis, Leptospira bratislava, Campylobacter fetus, Neospora caninum, Trichomonus fetus, Mycoplasma bovis, Haemophilis somnus, Mannheimia haemolytica and Pasturella multocida, comprising administering to said animal a therapeutically effective amount of the vaccine composition of Claim 20.
- 55. (Withdrawn) The method of Claim 54, wherein said animal is a cow, a calf, a heifer, a steer or a bull.

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- 56. (Withdrawn) The method of Claim 55, wherein said animal is a lactating cow.
- 57. (Withdrawn) The method of Clam 55, wherein said animal is a pregnant cow.
- 58. (Withdrawn) The method of Claim 55, wherein said animal is a prebreeding cow or heifer.
- 59. (Withdrawn) The method of Claim 54, wherein said vaccine is administered intramuscularly.
- 60. (Withdrawn) The method of Claim 54, wherein said vaccine is administered subcutaneously.
- 61. (Withdrawn) The method of Claim 54, wherein said vaccine contains from about 10<sup>3</sup> to about 10<sup>10</sup> colony forming units per dose of each virus.
- 62. (Withdrawn) The method of Claim 54, wherein the amount of said vaccine administered is from about 0.5 to about 5.0ml per dose.
- 63. (Withdrawn) The method of Claim 62, wherein the amount of said vaccine administered is about 5ml per dose.
- 64. (Withdrawn) The method of Claim 62, wherein the amount of said vaccine administered is about 2ml per dose.
- 65. (Withdrawn) A method of preventing persistent fetal infection in an animal subject, comprising administering to said animal an effective amount of the vaccine composition of Claim 20.
- 66. (Withdrawn) The method of Claim 65, wherein said animal is a cow, a calf, a heifer, a steer or a bull.
- 67. (Withdrawn) The method of Claim 66, wherein said animal is a lactating cow.
- 68. (Withdrawn) The method of Claim 66, wherein said animal is a pregnant cow.
- 69. (Withdrawn) The method of Claim 66, wherein said animal is a prebreeding cow or heifer.
- 70. (Withdrawn) The method of Claim 65, wherein said vaccine is administered intramuscularly.
- 71. (Withdrawn) The method of Claim 65, wherein said vaccine is administered subcutaneously.

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72. (Withdrawn) The method of Claim 65, wherein said vaccine contains from about 10<sup>3</sup> to about 10<sup>10</sup> colony forming units per dose of each virus.

- 73. (Withdrawn) The method of Claim 65, wherein the amount of said vaccine administered is from about 0.5 to about 5.0ml per dose.
- 74. (Withdrawn) The method of Claim 73, wherein the amount of said vaccine administered is about 5ml per dose.
- 75. (Withdrawn) The method of Claim 73, wherein the amount of said vaccine administered is about 2ml per dose.
- 76. 83. (Canceled)